IN THE CLAIMS

Please amend the claims as follows.

- 1. (Previously amended) A polymer of Claim 7, wherein said polymer has an average cationic charge density of 2.77 or less units per 100 daltons molecular weight at a pH of from about 4 to about 12.
- 2. (Previously amended) A polymer according to Claim 1, wherein said polymer is a suds/foam stabilizer having an average cationic charge density from about 0.01 to about 2.75 units per 100 daltons molecular weight at a pH of from about 4 to about 12.
- 3. (Previously amended) A polymer according to Claim 1, wherein said polymer has a hydroxyl group density of from about 0.5 or less as measured by the Hydroxyl Group Density Equation.
- 4. (Previously amended) A polymer according to Claim 1, wherein said polymer comprises:
 - iv) units capable of having an anionic charge at a pH of from about 4 to about 12;
 - v) units capable of having an anionic charge and a cationic charge at a pH of from about 4 to about 12;
 - vi) units having no charge at a pH of from about 4 to about 12; and
 - vii) mixtures of units (iv), (v), (vi), and (vii).
- 5. (Original) A polymer according to Claim 2, wherein said polymer has an average molecular weight of from about 1,000 to about 2,000,000 daltons.
- 6. (Original) A polymer according to Claim 1, wherein said polymer has an average cationic charge density of about 0.75 to about 2.25 units per 100 daltons molecular weight at a pH of about 4 to about 12 and a molecular weight of about 10,000 to about 100,000 daltons.

7. (Currently amended) A polymer consisting essentially of:

A. at least one cationic monomeric unit A, capable of having a cationic charge at a pH in the range of from about 4 to about 12, having a Formula I:

$$-\left(CH_{2}--C$$

wherein

R¹ is H or an alkyl having 1 to 10 carbon atoms,

R² is a moiety selected from the group consisting of

wherein R³ is selected from the group consisting of

$$-O-$$
, $-C-$, and $-C-O-$;

a is an integer from 0 to 16; b is an integer from 2 to 10; c is an integer from 2 to 10; d is an integer from 1 to 100;

R⁴ and R⁵ are independently selected from the group consisting of -H, and

$$-R^8-N$$
 R^9
 R^{10}

R⁸ is independently selected from the group consisting of a bond and an alkylene having 1 to 18 carbon atoms;

R⁹ and R¹⁰ are independently selected from the group consisting of -H, alkyl having 1 to 10 carbon atoms;

 R^{12} and R^{13} are independently selected from the group consisting of H and alkyl having from 1 to 10 carbon atoms;

wherein x is an integer from 2 to 10;

B. at least one monomeric unit B selected from the group consisting of:

a monomeric unit of Formula IV

wherein R^{20} is selected from the group consisting of H and CH_3 ; R^{21} is selected from the group consisting of:

wherein e is an integer from 3 to 25;

-O-(CH₂)_f-CH₃

wherein f is an integer from 0 to 25;

wherein g is an integer from 1 to 100,
h is an integer from 1 to 100, $R^{23} \text{ is -H, } CH_3 \text{ or } C_2H_{57}$ $R^{24} \text{ is } CH_3 \text{ or } C_2H_{57}$

wherein j is an integer from 1 to 25;

wherein k is an integer from 1 to 25;

-NH-(CH₂)_m-NH₂-HCl, wherein m is an integer from 1 to 25; and

a polyhydroxy monomeric unit of Formula VI:

$$\begin{array}{c|cccc}
OH & OH \\
\hline
-O - CH - CH - N
\end{array}$$
VI

$$\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \\ \end{array} \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \\ \end{array} \begin{array}{c} \\ \\$$

wherein n is an integer from 1 to 50; and

C. optionally at least one monomeric unit C selected from the group consisting of:

$$-CH_{2} - C - C - CH_{2} - CH_{2} - CH_{3},$$
wherein R^{25} is -H or -CH₃,
$$-CH_{2} - CH_{3}$$

$$-CH_{2} - CH_{3}$$

$$-CH_{2} - CH_{3}$$

$$-CH_{2} - CH_{3}$$
and
$$-CH_{2} - CH_{3}$$

wherein R^{26} is -H or CH_3 , wherein said at least one monomeric unit B is selected from the group consisting of:

wherein n is an integer from 1 to 50.

- 8. (Original) The polymer of Claim 7, wherein said polymer comprises at least one said monomeric unit A, at least one said monomeric unit B and at least one said monomeric unit C.
- 9. (Original) The polymer of Claim 7, wherein said at least one monomeric unit A is selected from the group consisting of:

wherein R³⁰ is H or -CH₃,

wherein R^{31} is a bond or R^{32} and R^{33} are $-CH_3$ or $-C_2H_5$.

10. (Currently amended) The polymer of Claim 9, wherein said polymer is a terpolymer,

said at least one monomeric unit B is selected from the group consisting of:

wherein R^{38} is selected from the group consisting of H and CH_3 - and R^{40} is selected from the group consisting of $-CH_2CH_2$ -OH and

$$-CH_2-CH-CH_3$$
 ,

$$\begin{array}{c} CH_3\\ \mid\\ and\ isomers\ thereof\\ \underline{-CH-CH_2-OH},\end{array}$$

said terpolymer comprising said at least one monomeric unit C,

wherein the molar ratio of said monomeric unit A: monomeric unit B: monomeric unit C is 1 to 9: 1 to 6 respectively.

11. (Original) The polymer of Claim 7, wherein the at least one monomeric unit B has the formula:

$$\begin{array}{c}
-(CH_2-CH-) \\
C=O \\
O \\
(CH_2CH_2O)_{\overline{q}}-H
\end{array}$$

wherein q ranges from 1 to 12.

12. (Original) The polymer of Claim 11, wherein the polymer is a terpolymer, said at least one monomeric unit A is selected from the group consisting of:

wherein R¹⁰ is H or CH₃,

 R^{11} is a bond or R^{12} , and R^{12} and R^{13} are $-CH_3$ or $-C_2H_5$, and said monomer comprises said at least one monomeric unit C.

13. (Original) The polymer of Claim 12, wherein the molar ratio of monomeric unit A: monomeric unit B: monomeric unit C ranges from 1 to 9: 1 to 3 respectively.

14. (Withdrawn) The polymer of Claim 7, wherein said at least one monomeric unit A has a formula selected from the group consisting of:

15. (Withdrawn) The polymer of Claim 7, wherein said at least one monomeric unit A has a formula selected from the group consisting of:

$$\begin{array}{c|c} & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

16. (Cancelled)

- 17. (Original) The polymer of Claim 7, selected from the group consisting of: poly(HEA-co-DMAM-co-AA) terpolymer, poly(HPA-co-DMAM-co-AA) terpolymer, and poly(PEG-acrylate-co-DMAM-co-AA) terpolymer.
- 18. (Currently Amended) The polymer of Claim 7, <u>is selected from the group consisting of:</u> poly(HEA-co-DMAM) copolymer, <u>poly(DMAM-co-butylvinylether) copolymer and poly(2-diethylaminoethylvinyl ether-co-ethyleneglycol monovinyl ether)</u>.
- 19. (Withdrawn) A method for cleaning hair or skin comprising applying an effective amount of a cleaning composition comprising the polymer of Claim 1 and at least one detersive surfactant to hair or skin in need of cleaning, provided that a 10% aqueous solution of said composition has a pH from about 4 to about 9.
- 20. (Withdrawn) The method of Claim 19, wherein said composition further comprises at least one member of the group consisting of a pearlizing agent, a silicone hair conditioning agent, and an antidandruff ingredient.
 - 21. (Withdrawn) The method of Claim 20, wherein said composition comprises:
 - a) said pearlizing agent
 - b) a nonionic surfactant
 - c) an amphoteric surfactant
 - d) a glycol emulsifier
 - e) water.
- 22. (Withdrawn) The method of Claim 20, wherein said composition comprises at least one amphoteric surfactant and said amphoteric surfactant comprises at least one member of the group consisting of:

the alkali salts of alkyl amphodipropionates, alkyl amphodiacetates, alkyl amphoglycinates, alkyl amphopropyl sulfonates and alkyl amphopropionates wherein alkyl represents an alkyl group having 6 to 20 carbon atoms.

- 23. (Withdrawn) The method of Claim 22, wherein in said at least one amphoteric surfactant the alkyl group is derived from coconut oil or is a lauryl group.
- 24. (Withdrawn) A method for cleaning hair or skin comprising applying an effective amount of a cleaning composition comprising the polymer of Claim 5 and at least one surfactant to hair or skin in need of cleaning.
 - 25. (Withdrawn) A composition for cleaning hair or skin comprising: the polymer of Claim 1,

at least one detersive surfactant, and at least one member of the group consisting of a pearlizing agent, a silicone hair conditioning agent, and an antidandruff ingredient, provided that a 10% aqueous solution of said composition has a pH from about 4 to about 12.

- 26. (Withdrawn) A composition for cleaning hair or skin comprising: the polymer of Claim 7,
- at least one surfactant, and at least one member of the group consisting of a pearlizing agent, a silicone hair conditioning agent, and an antidandruff ingredient.
- 27. (Withdrawn) The composition of Claim 26, wherein said silicone compound is an alpha, omega-trimethylsilyl-polydimethylsioloxane having a viscosity at 25°C of at least 25 centistokes and less than 60,000 centistokes.
- 28. (Withdrawn) A method for washing a fabric article in a washing medium comprising:

applying an effective amount of a laundry cleaning composition comprising the polymer of Claim 1 and at least one detergent surfactant to a fabric article in need of cleaning.

- 29. (Withdrawn) The method of Claim 28, wherein said composition washes a colored fabric article.
- 30. (Withdrawn) The method of Claim 28, wherein said composition comprises at least one member of the group consisting of an aminosilione, a Gemini surfactant, a detergency builder, a bleach, an activator for percompound bleach, a soil suspending agent, a soil antiredeposition agent, a foam suppressant agent and a fabric softener.
- 31. (Withdrawn) The method of Claim 28, wherein said composition comprises a foam suppressant agent.
- 32. (Withdrawn) A method for washing a fabric article in a washing medium comprising:

applying an effective amount of a laundry cleaning composition the polymer of Claim 7 and at least one detergent surfactant to a fabric article in need of cleaning.

33. (Withdrawn) A detergent composition for washing a fabric article comprising: the polymer of Claim 1;

at least one detergent surfactant; and

at least one member of the group consisting of an aminosilicone, a Gemini surfactant, a detergency builder, a bleach, an activator for percompound bleach, a soil suspending agent, a soil antiredeposition agent, a foam suppressant agent and a fabric softener;

provided that a 10% aqueous solution of said detergent composition has a pH of from about 4 to about 12.

- 34. (Withdrawn) A method for extinguishing fire comprising applying a foam to a fire, wherein the foam comprises a foaming agent and a polymer of Claim 1.
 - 35. (Withdrawn) A method for treating agrigultural substrate selected from the group

consisting of plants, soil or seed comprising,

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applying to the substrate a foam comprising at least one agricultural chemical selected from the group consisting of a herbicide, a pesticide, and a fungicide, a foaming agent and a polymer of Claim 1.

- 36. (Withdrawn) A method comprising, injecting into a subterranean formation, a foam comprising a foaming agent and a polymer of Claim 1.
- 37. (Withdrawn) A method for shaving hair from skin comprising applying foam shaving cream to the skin, said shaving cream comprising a foaming agent and a polymer of Claim 1.
- 38. (Withdrawn) A method for shaving hair from skin comprising applying a shaving gel to the skin, said gel comprising a foaming agent and a polymer of Claim 1.
- 39. (Withdrawn) A method comprising applying a dephiliatory foam to skin, said foam comprising a foaming agent and a polymer of Claim 1.
- 40. (Withdrawn) A method of cleaning hard bathroom surfaces comprising applying to said surfaces a foam cleaner comprising a foaming agent and a polymer of Claim 1.
- 41. (Withdrawn) A process for making paper comprising aiding retention of titanium dioxide on the paper during the paper making comprising treating the paper with an aqueous solution comprising titanium dioxide and a polymer of Claim 1.
 - 42. (Cancelled)
 - 43. (New) The polymer of Claim 7, consisting of:
 - A. said at least one cationic monomeric unit A,
 - B. at least one monomeric unit B; and

C. optionally said at least one monomeric unit C.